

CLAIMS

1. A rubbish receptacle or bin including a container with an uppermost lid which is connected to the container by a pivot connection about an axis so that it can assume, by being pivoted about its pivot connection, a closed position with respect to an otherwise open top of the container and in a further open position whereby access for introduction of rubbish into the container can be achieved, characterised in that there is a compactor which is located so as to be below the lid when the lid is in a closed position with respect to the otherwise open top of the container, the compactor being supported at a rearward location by a first pivot connection with the container with an axis which is aligned to be parallel to the axis of the pivot connection of the lid to the container, and being supported at a forward location by a pivot connection pivotable about a parallel axis to the first pivot axis, to a link which has its further end pivotally connected to the lid with an axis parallel to the first pivot axis, the location of the axis of the pivot connection of the link with the lid being such that when the lid is closed the pivot connection axis is further forward than the pivot axis of the lid to the container, and rearward of the axis of the pivot connection of the link to the compactor, and beneath a plane defined by the axis of the said first pivot connection and the axis of the pivot connection of the link to the compactor, and when the lid is being opened, the pivot axis of the link to the lid is caused to progress through the said plane and then as the opening of the lid progresses, further away from the plane defined by the axis of the said first pivot connection and the axis of the pivot connection of the link to the compactor.
2. The rubbish receptacle as in the preceding claim further characterised in that there is a resilient biasing means arranged to urge the lid into an open position.

3. The rubbish receptacle as in either one of claims 1 or 2 further characterised in that there is an opening located through a side of the bin and below the compactor when this is in a compacting position with the lid closed.
- 5 4. The rubbish receptacle as in any one of the preceding claims further characterised in that there is an arrangement to support a liner with respect to the compactor.
5. The rubbish receptacle as in the immediately preceding claim further characterised in that there are means to support a roller supporting a roll of liner or liners and positioned such that the liner can be unwound from the roll to be positioned across a compacting surface of the compactor.
- 10 6. The rubbish receptacle as in any one of the preceding claims further characterised in that there are foot operable means to effect a lowering of the lid together with the compactor into a compacting position.
- 15 7. The rubbish receptacle as in any one of the preceding claims further characterised in that there are foot operable means to lift the lid from a closed position.
- 20 8. The rubbish receptacle as in any one of the preceding claims further characterised in that the container is divided into two or more separate compartments via dividing walls.
9. A compactor lid assembly for attachment to a top of a rubbish receptacle or bin, such that the assembly includes a rim arranged to locate over and be attached to a top of a bin, a lid pivotally secured to a side of the rim, a compactor, the lid and compactor both being pivotally connected 25 to the rim at or toward respective first ends, the pivot connections in each case being parallel one with respect to the other, and with the pivot connection of the lid being higher than the pivot connection of the

compactor when the assembly is positioned for use on an uppermost open top bin, a link with a first end pivotally connected to at or toward a second end of the compactor with an axis which is parallel to the axis of the first said pivot connections, a second end of the link being pivotally connected
5 to the lid with an axis that is parallel to the said first said pivot connection and, when the lid is in a closed position is lower than a plane defined by the respective axes of the pivot connection of the compactor to the rim, and the pivot connection of the link to the compactor, and this relative positioning is changed as the lid is opened to where the axis of the pivot connection of
10 the link to the lid is above the plane.

10. A rubbish receptacle or bin including a container with an uppermost lid which is connected to the container by a pivot connection so that it can assume by being pivoted about its pivot connection into a closed position with respect to an otherwise open top of the container and in a further
15 position an open position whereby access for introduction of rubbish into the container can be achieved, characterised in that there is a compactor which is located so as to be below the lid when this is in a closed position with respect to the otherwise open top of the container, and is supported at a rearward location by a first pivot connection with the container which is
20 aligned to be parallel to the pivot connection of the lid to the container, and which is attached at a forward location of the compactor by a pivot connection about a parallel axis to the first pivot, to at least one link which has its further end pivotally connected to the lid with an axis parallel to the first said link, the relative position of the pivot connections being such that
25 the compactor which includes a compactor member is caused to be lowered with a compacting action as the lid is brought into a closed position, and where an extent of mechanical advantage is achieved between any force applied to the lid as compared to a resultant compacting force provided by the compactor against any rubbish within the container
30 is increased as the lid is closed.

11. A rubbish receptacle or bin including an uppermost opening and a compacting lid assembly which includes a lid arranged to close the opening of the bin, and positioned beneath the lid, a compacting pressure applying part, the lid being connected at a first end to be rotatable about an approximately horizontal axis which is located in the vicinity of a one side of the bin, and such that by rotation about the axis it can be moved from a position allowing access for trash being placed through the opening into the bin, and in a further position fully closes the opening of the bin, a lower compacting pressure applying part pivotally connected to be rotatable with respect to the bin at or toward a respective first end, of the part such that the pivot points of the lid to the bin and the part to the bin are at least vertically spaced apart; a first end of a link being pivotally connected at or toward a second end of the compacting element, a second end of the link being pivotally connected to the lid with an axis the location of which changes as the lid is opened from a closed position from a position where the axis is below a plane defined by the respective axes of the pivot connections of the part to the bin and the link to the part, to a position where the axis is above this plane as the opening progress's.

12. A compacting lid assembly including a rim adapted to interengage with an opening of a bin, an upper lid element arranged to close the opening to the rim, a lower compacting element adapted to compact the contents of the bin, the upper and lower elements both being pivotally connected to the rim at respective first ends, such that the pivot points are at least vertically spaced apart; a link, the first end of which is pivotally connected to a second end of the compacting element, the second end of the link being pivotally connected to the lid at a point that remains between the pivot point for the first end of the connecting element and the pivot point of the lid throughout the arc of the lids travel.

13. A rubbish receptacle or bin being a container with an uppermost lid which is connected to the container by a pivot connection so that it can

assume by being pivoted about its pivot connection into a closed position with respect to an otherwise open top of the container and in a further position an open position whereby access for introduction of rubbish into the container can be achieved, characterised in that there is a compactor

5 which is located so as to be below the lid when this is in a closed position with respect to the otherwise open top of the container, and is supported at a rearward location by a first pivot connection with the container which is aligned to be parallel to the pivot connection of the lid to the container, and which is attached at a forward location of the compactor by a pivot

10 connection about a parallel axis to the first pivot, to at least one link which has its further end pivotally connected to the lid with an axis parallel to the first said link, the relative position of the pivot connections being such that the compactor which includes a compactor member is caused to be lowered with a compacting action as the lid is brought into a closed

15 position, and where an extent of mechanical advantage is achieved between any force applied to the lid as compared to a resultant compacting force provided by the compactor against any rubbish within the container is increased as the lid is closed.

14. A rubbish receptacle or bin substantially as described in the
20 specification with reference to and as illustrated by the accompanying
illustrations.

15. A compacting lid assembly substantially as described in the
specification with reference to and as illustrated by the accompanying
illustrations.